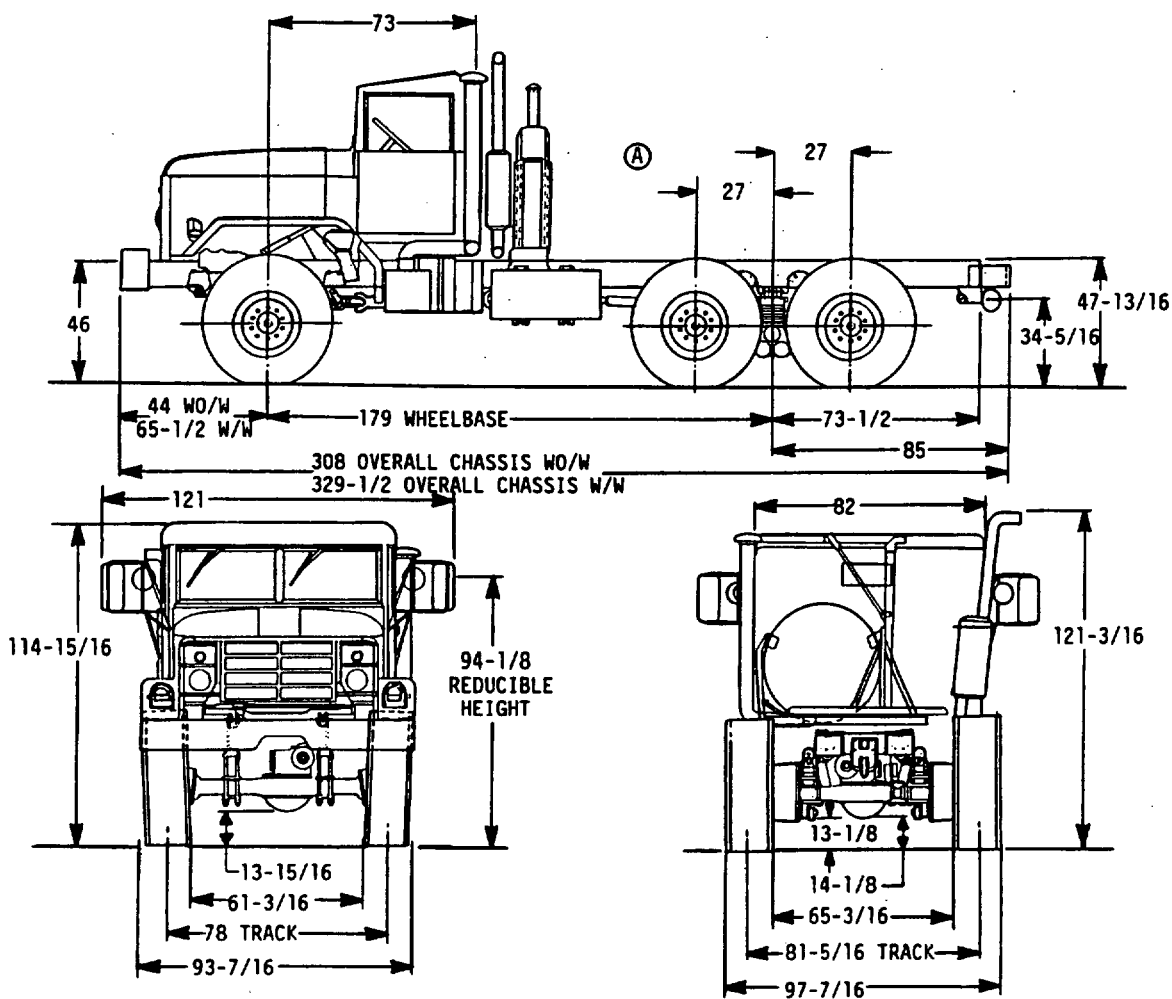


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Ⓐ DENOTES CHANGES

MS PART NO.	ENGINEERING DRAWING NO.	DESCRIPTION
MS52237-1	8750142	WITH WINCH
MS52237-2	8750143	LESS WINCH

PREPARING ACTIVITY: ARMY-AT

CUSTODIANS: ARMY- NAVY-
AIR FORCE- DLA-

REVIEW:
USER:

PROJECT NUMBER: 2320-A380

MILITARY SPECIFICATION SHEET

TITLE:
CHASSIS, TRUCK,
5-TON, 6x6, M939A1

SPECIFICATION SHEET NUMBER:

MS52237A(AT)
14 SEPTEMBER 1989

SUPERSEDING:
MS52237(AT), 4 OCTOBER 1985

AMSC-NA

FSC- 2320

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Page 1 of 2

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VEHICLE CHARACTERISTICS

CURB WEIGHT, FULLY EQUIPPED W/O/W 12256540
LESS PAYLOAD AND CREW 12256156
FRONT 10,140 LBS 11,190 LBS
REAR BOGIE 9,280 LBS 9,330 LBS
TOTAL 19,420 LBS 20,520 LBS

PAYLOAD: (MAXIMUM INCLUDING BODY) 12,500 LBS 12,500 LBS
TOWED LOAD ALLOWANCE: 15,000 LBS 15,000 LBS

SHIPPING DIMENSIONS:
CUBIC FEET 1,636 1,748
SQUARE FEET 209 223

ANGLE OF APPROACH: (LOADED) 46° 31°
ANGLE OF DEPARTURE: (LOADED) 38° 38°
ANGLE OF BREAKOVER: (LOADED) 38° 38°

MINIMUM TURNING RADIUS: (WALL TO WALL)
 40-11/16 FT 42-13/16 FT

TRACK: FRONT 78 IN REAR 81-5/16 IN
FORDING DEPTH: WITH KIT 80 IN LESS KIT 32 IN

ENGINE:
 MODEL MHC-250 6 CYL. IN-LINE 11669328-1
 COMPRESSION IGNITION FUEL INJECTION
 DISPLACEMENT 855 CU IN BORE AND STROKE 5.5 X 6
 COMPRESSION RATIO 15.8:1
 FUEL DIESEL OCTANE/CETANE #40
 HORSEPOWER: GROSS 240 @ 2100 RPM
 NET 210 @ 2100 RPM
 TORQUE: GROSS 658 LB-FT @ 1500 RPM
 NET 600 LB-FT @ 1500 RPM
 CRANKCASE CAPACITY W/O FILTER 24.0 QTS
 W/FILTER 28.0 QTS
 GOVERNOR TYPE: MECHANICAL
 COOLING SYSTEM CAPACITY: 40.0 QTS
 PUMP TYPE DRIVE 2 V-BELTS
 GOVERNED SPEED: 2100 RPM AT FULL LOAD

FUEL SYSTEM: FUEL TANK CAPACITY 81 GALS
 FUEL PUMP, IN-TANK, FUEL INJECTION,
 INJECTION PUMP 3028791-3892

CLUTCH: NONE

TRANSMISSION: AUTOMATIC 11669085
 NO OF SPEEDS 5 FORWARD, 1 REVERSE
 RATIOS: 1ST 4.17:1; 2ND 2.21:1, 3RD 1.66:1
 4TH 1.27:1; 5TH 1.0:1; REV 10.76:1 PTO
 1 OPENING, SAE 6 BOLT RIGHT SIDE OF TRANS
 LUBRICANT CAPACITY W & W/O PTO 17.0 QTS

TRANSFER CASE: W/O PTO 11669112
 NO OF SPEEDS 2 RATIOS HIGH 0.732:1
 LOW 1.790:1
 CONTROL OF FRONT AXLE DRIVE AIR-ACTUATED
 MANUAL ENGAGEMENT
 LUBRICANT CAPACITY 6.75 QTS

WINCH: 7412382-1
 CAPACITY 9,500 LBS
 WIRE ROPE CABLE 0.625 IN DIA,
 CABLE LENGTH 200 FT

TIEDOWNS: TOTAL QTY 15 (11 U-BOLTS), 10883223
 SIX LEFT SIDE, FIVE RIGHT SIDE
 TWO FRONT LIFTING SHACKLES 12301040
 TWO REAR LIFTING SHACKLES 7409523

AXLES: FRONT 12256540
 REAR QTY 2 12256156
 TYPE: SINGLE-SPEED, DOUBLE REDUCTION
 RATIO 6.443:1
 LUBRICANT CAPACITY 12.0 QTS EACH

FRAME: 12256206
 TYPE: RAIL CHANNEL, SIDERAIL DIMENSIONS
 9 X 3 X 0.31; SECTION MODULUS 10.7 CU. IN
 NO OF CROSSMEMBERS 6

FRONT SPRINGS: 3 WIDE X 50 LONG 7411110
 NO OF LEAVES 12; RATE 2,271 LB/IN
 TYPE SEMI ELLIPTICAL
 SHOCK ABSORBERS DIRECT ACTING QTY 2

REAR SPRINGS: 4 WIDE X 59.25 LONG 7409613
 NO OF LEAVES 13; RATE 5,983 LB/IN
 TYPE SEMI ELLIPTICAL, INVERTED QTY 2

STEERING: HYDRAULIC W/POWER ASST 11668993
 RATIO 20.4:1

TIRES: TUBELESS W/BEADLOCKS SIZE 14.00R20
 LOAD RATING J; ALL TERRAIN TREAD; 1 SPARE

WHEELS: TWO PIECE STEEL DISC 12301115
 20 DIA X 10.00 WIDE: OFFSET 5.09

BRAKES, SERVICE: AIR ACTUATED, SELF ADJUST
 FRONT SINGLE ACTUATING; REAR DUAL ACTING
 DRUM SIZE FRONT & REAR 15 DIA X 7 WIDE
 TOTAL EFFECTIVE AREA FRONT 432 SQ IN
 REAR 864 SQ IN

BRAKES, PARKING: COMBINATION INTERNAL
 EXPANDING 12 DIA X 3 WIDE. DRUM AT REAR
 OF TRANSFER CASE AND FOUR SPRING EMERGENCY
 PARKING TYPE ON REAR AXLES.

ELECTRICAL SYSTEM: WATERPROOFED, RADIO
 SUPPRESSED PER MIL-STD-461
 POTENTIAL 24 VOLTS; MOTOR MS53011-1
 ALTERNATOR 60 AMP RATING 10929868
 DRIVE 2 V-BELTS
 BATTERIES QTY 4; TYPE 12V - 6TN MS35000-3

TRAILER COUPLING SOCKET 8376209
 TURN SIGNAL, SOLID STATE FLASHER 11613631
 CONTROL 11669166
 LIGHTING: HEADLAMPS 8741462
 B.O. DRIVING LAMP 8747988
 COMPOSITE LAMPS: FRONT 11614156
 REAR 11614157

PERFORMANCE: APPROX. 4.6 MILES PER GALLON
 350 MILES CRUISING RANGE GRADEABILITY
 WITH GVW OF 33,620 LBS, HIGH 1.7% LOW 60%
 MAXIMUM SPEED 63 MPH AT ENGINE GOVERNED
 SPEED 2100 RPM

CAB: TYPE: STD CANVAS, ARCTIC HARDTOP KIT,
 CAPACITY 3

PINTLE: 8710630
 MAX VERTICAL LOAD (STATIC) 1,500 LBS

ON-VEHICLE EQUIPMENT: (OVE)
 BASIC ISSUE ITEMS 12300877
 ADDITIONAL AUTHORIZATION LIST ITEMS 12300998

ACCESSORY/SUPPLEMENTAL KITS: 12302863

NOTES:

1. DIMENSIONS ARE IN INCHES AND ARE SHOWN FOR ENGINEERING REFERENCE ONLY.
2. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
3. THIS VEHICLE SHALL BE IN ACCORDANCE WITH REFERENCED ENGINEERING DRAWINGS, COPIES WHICH MAY BE OBTAINED FROM: US ARMY TANK-AUTOMOTIVE COMMAND, WARREN, MICH. 48397-5000.

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